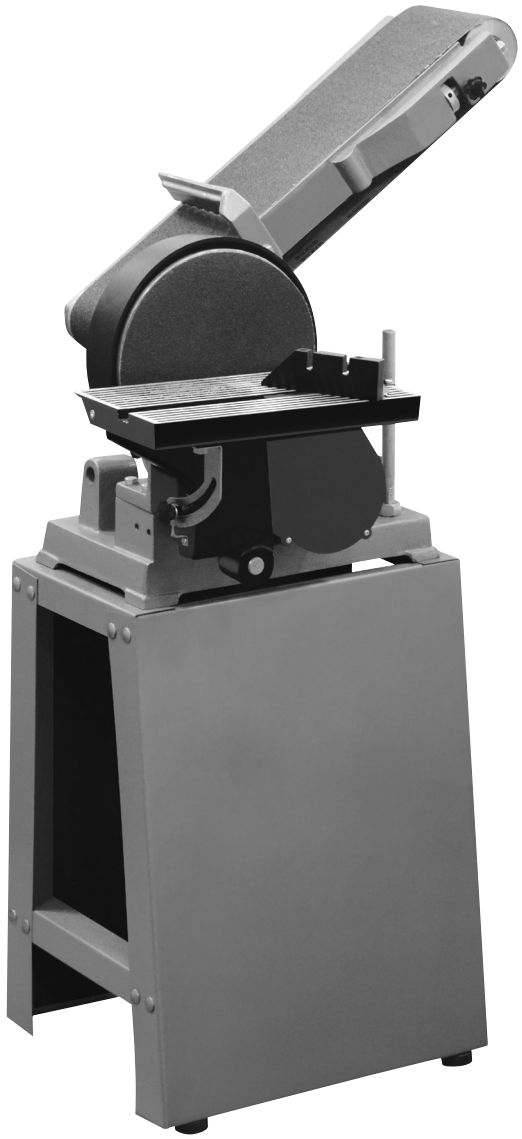
Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

CENTRAL MACHINERY®

6" BELT & 9" DISC COMBINATION SANDER



REV 14a

Visit our website at: http://www.harborfreight.com
Email our technical support at: productsupport@harborfreight.com

ITEM 6852

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools.
Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein.
Tools required for assembly and service may not be included.

⚠WARNING

**Read this material before using this product.
Failure to do so can result in serious injury.
SAVE THIS MANUAL.**

PRODUCT SPECIFICATIONS

Electrical Requirements	1 HP, Ball Bearing Motor 110 Volt / 60 Hz / 12.8 Amps 3450 Rpm
Overall Height	40"
Table Surface Dimensions	6-1/2" x 12-3/4"
Table Tilt	0-50 Degrees
Work Table Options	For Sanding Disc or Sanding Belt Use
Belt Size	6" x 48"
Disc Size	9" Diameter, PSA Type
Belt Speed	1400 FPM
Disk Speed	1800 RPM
Weight	121 lb.

WARNING SYMBOLS AND DEFINITIONS	
⚠	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
⚠ DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
⚠ WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
⚠ CAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE CAUTION	Addresses practices not related to personal injury.

IMPORTANT SAFETY INFORMATION

General Tool Safety Warnings

⚠WARNING

Read all safety warnings and instructions.
Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.
Save all warnings and instructions for future reference.

1. KEEP GUARDS IN PLACE and in working order.
2. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
3. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
4. DON'T USE IN DANGEROUS ENVIRONMENT. Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
5. KEEP CHILDREN AWAY. All visitors should be kept safe distance from work area.
6. MAKE WORKSHOP KID PROOF with padlocks, master switches, or by removing starter keys.
7. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was designed.
8. USE RIGHT TOOL. Don't force tool or attachment to do a job for which it was not designed.

Table A: RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS (120 VOLT)

NAMEPLATE AMPERES (at full load)	EXTENSION CORD LENGTH			
	25′	50′	100′	150′
0 – 6	18	16	16	14
6.1 – 10	18	16	14	12
10.1 – 12	16	16	14	12
12.1 – 16	14	12	**Do not use.**	

9. USE PROPER EXTENSION CORD. Make sure your extension cord is in good condition. When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table A shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.
10. WEAR PROPER APPAREL. Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.
11. ALWAYS USE SAFETY GLASSES. Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.
12. SECURE WORK. Use clamps or a vise to hold work when practical. It's safer than using your hand and it frees both hands to operate tool.

13. DON'T OVERREACH.
    Keep proper footing and balance at all times.

14. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

15. DISCONNECT TOOLS before servicing; when changing accessories, such as blades, bits, cutters, and the like.

16. REDUCE THE RISK OF UNINTENTIONAL STARTING. Make sure switch is in off position before plugging in.

17. USE RECOMMENDED ACCESSORIES. Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.

18. NEVER STAND ON TOOL.
    Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.

19. CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function – check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.

20. DIRECTION OF FEED.
    Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.

21. NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF. Don't leave tool until it comes to a complete stop.

Grounding Instructions

⚠WARNING

TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING WIRE CONNECTION READ AND FOLLOW THESE INSTRUCTIONS:

110-120 VAC Grounded Tools: Tools with Three Prong Plugs

1. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

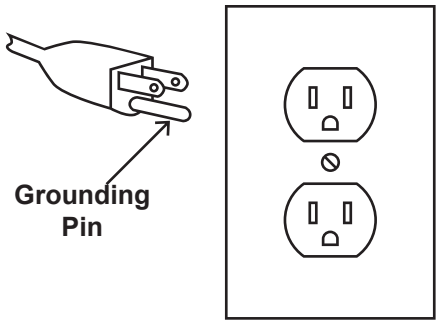
2. Do not modify the plug provided – if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

3. Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

4. Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.

5. Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.

6. Repair or replace damaged or worn cord immediately.



125 VAC 3-Prong Plug and Outlet (for up to 125 VAC and up to 15 A)

7. This tool is intended for use on a circuit that has an outlet that looks like the one illustrated above in **"125 VAC 3-Prong Plug and Outlet"**. The tool has a grounding plug that looks like the plug illustrated above in **"125 VAC 3-Prong Plug and Outlet"**.
8. The outlet must be properly installed and grounded in accordance with all codes and ordinances.
9. Do not use an adapter to connect this tool to a different outlet.

Sander Tool Safety Warnings

For Your Own Safety Read Instruction Manual Before Operating Tool Sander

1. Wear eye protection.
2. Support workpiece with miter gauge, backstop, or worktable.
3. Maintain 1/16 inch maximum clearance between table and sanding belt or disc.
4. Avoid kickback by sanding in accordance with the directional arrows.
5. The backstop is a fence near the surface that helps the operator maintain control of the workpiece and prevents the workpiece from being pulled into the machine. For safety, it must be adjusted very close to the sanding surface.
6. The worktable is the surface mounted close to the sanding surface that the operator rests the workpiece against to prevent it from being pulled by the sanding surface. For safety, it must be adjusted very close to the sanding surface.
7. The sanding belt is designed to rotate down towards the table while the disc rotates both up from the table and down towards the table. Sand only on the downward moving surface of the disc - sanding on the upward moving surface may result in the workpiece being thrown up and towards the operator.
8. **DO NOT OPERATE WITH ANY GUARD DISABLED, DAMAGED, OR REMOVED. Moving guards must move freely and close instantly.**
9. The use of accessories or attachments not recommended by the manufacturer may result in a risk of injury to persons.
10. When servicing use only identical replacement parts.
11. Do not depress the spindle lock when starting or during operation.
12. Only use safety equipment that has been approved by an appropriate standards agency. Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.
13. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
14. Industrial applications must follow OSHA guidelines.
15. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.
16. Avoid unintentional starting. Prepare to begin work before turning on the tool.

17. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.

18. WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction activities, contains chemicals known [to the State of California] to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
    • Lead from lead-based paints
    • Crystalline silica from bricks and cement or other masonry products
    • Arsenic and chromium from chemically treated lumber
    Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles. (California Health & Safety Code § 25249.5, *et seq.*)

19. WARNING: Handling the cord on this product will expose you to lead, a chemical known to the State of California to cause cancer, and birth defects or other reproductive harm. Wash hands after handling. (California Health & Safety Code § 25249.5, *et seq.*)

20. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur.
    It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Vibration Safety

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any medical or physical symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.

2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.

3. Use tools with the lowest vibration when there is a choice between different processes.

4. Include vibration-free periods each day of work.

5. Grip workpiece as lightly as possible (while still keeping safe control of it). Let the tool do the work.

6. To reduce vibration, maintain the tool as explained in this manual. If any abnormal vibration occurs, stop use immediately.

SAVE THESE INSTRUCTIONS.

PRODUCT FEATURES

NOTE: Prior to assembling and operating the Belt/Disc Sander, it is important to familiarize yourself with all of the machine's major components. Failure to do so may result in personal injury and/or damage to the machine and workpiece being sanded. **(See Figure B, and refer to the *"Operating Instructions"* section in this manual.)**

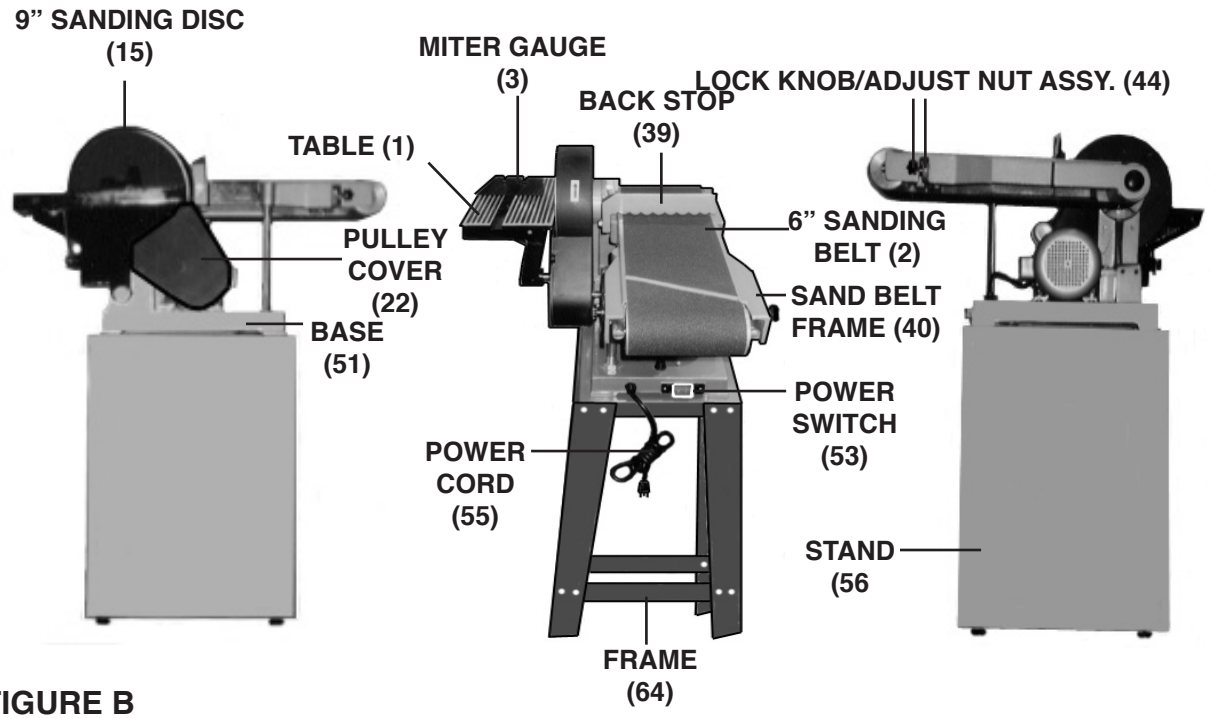


FIGURE B

ASSEMBLY INSTRUCTIONS

NOTE: For additional references to the parts listed below, refer to the **Assembly Diagram on page 17.**

To Assemble The Stands, Frames, And Upper Bracket:

1. With assistance, position the two Stands (56) upright on the floor and parallel to one another. **(See Figure C.)**

2. Place the end of one Frame (64) on the **inside** edge of one Stand (56), and align the two mounting holes on the *end* of the Frame with the two *lower* mounting holes on the Stand. **(See Figure C.)**

3. Secure the Frame (64) to the Stand (56), using two Bolts (58), two Washers (60), and two Nuts (63). **(See Figure C.)**

4. Repeat Steps #1, #2, and #3 to connect the *other end* of the Frame to the remaining Stand. **(See Figure C.)**

5. To connect the *remaining* Frame (64) to the two Stands (56), follow Steps #1, #2, #3, and #4). **(See Figure C.)**

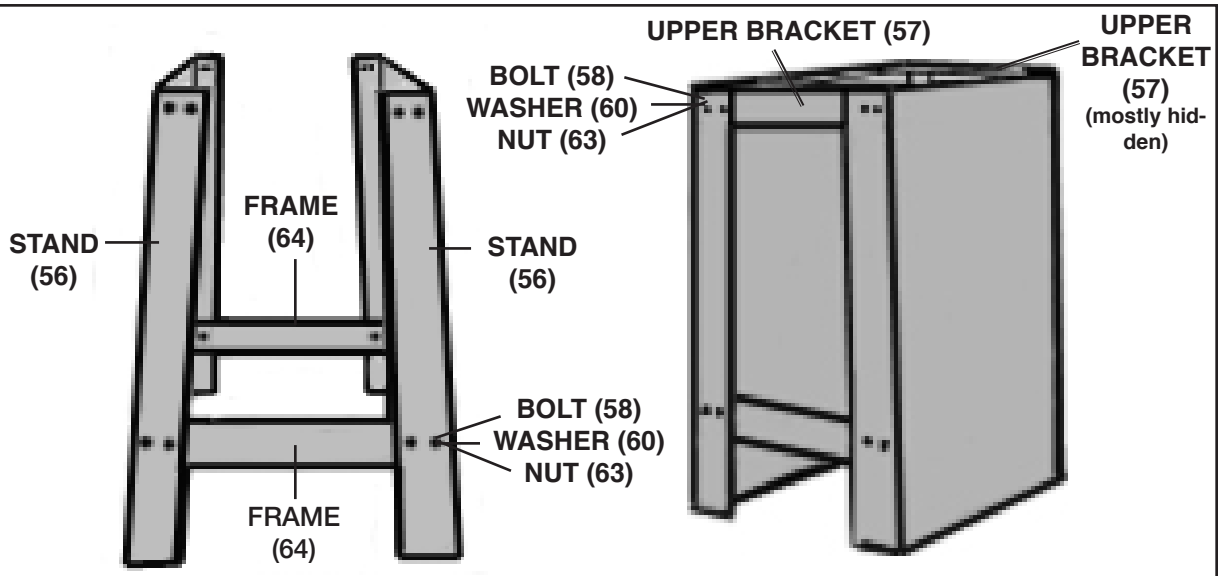


FIGURE C

6. Place both Upper Brackets (57) on the top edges of the two Stands (56), and align the *eight* mounting holes (two on each end) of the Brackets with the *eight* mounting holes (two on each end) of the Stands. **(See Figure C.)**

7. Secure both Upper Brackets (57) to the two Stands (56), using eight Bolts (58), Washers (60), and Nuts (63). **(See Figure C.)**

8. With assistance, carefully tip the assembled Stand on its side. Attach a Rubber Foot (59) to each of the Stand's four corners, using four Rubber Feet, four Washers (60), and four Screws (61). Then, place the Stand back in its upright position. **(See Figure D.)**

To Attach The Base To The Upper Bracket:

1. With assistance, place the Base (51) of the Belt/Disc Sander on top of the Upper Brackets (57). Align the four *threaded* mounting holes on the Base with the four mounting holes on the Upper Brackets. **(See Figures B, and D.)**

2. From *underneath* the Stand, secure the Base (51) to the Upper Brackets (57) by inserting four Screws (66), with four Washers (65), *upward* through the Stand's four mounting holes. Then, firmly tighten the four Screws into the four threaded mounting holes on the Base. **(See Figure D.)**

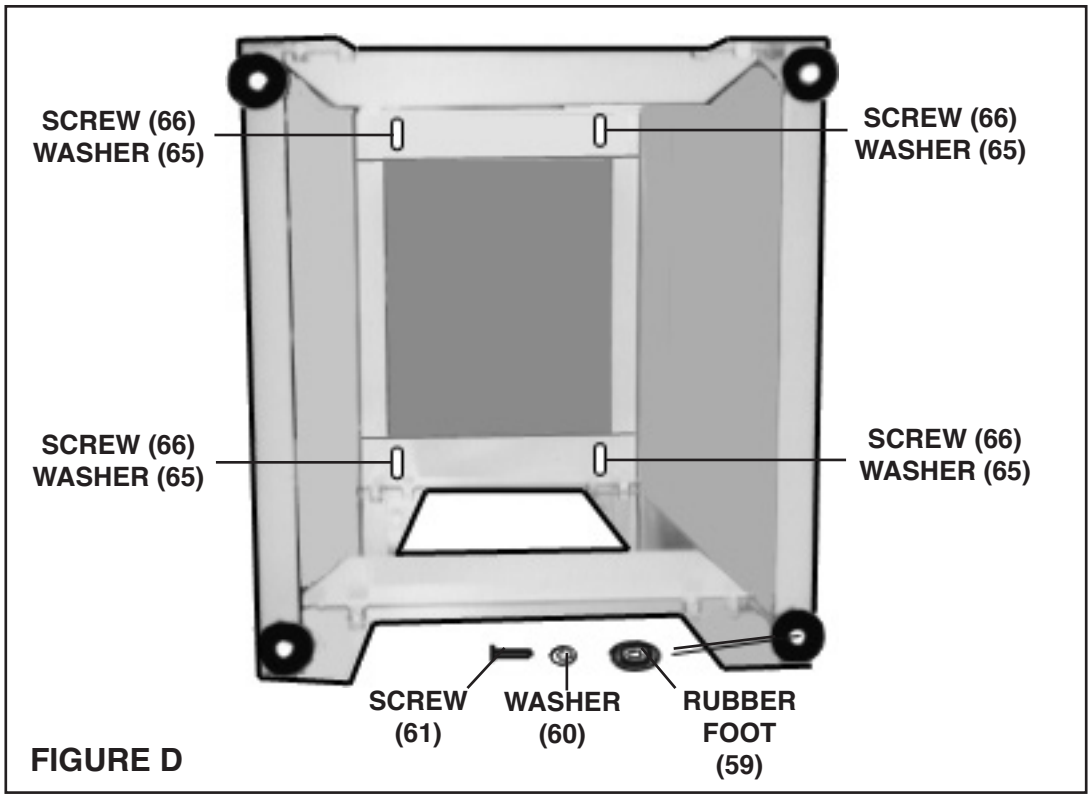


FIGURE D

Figure A:

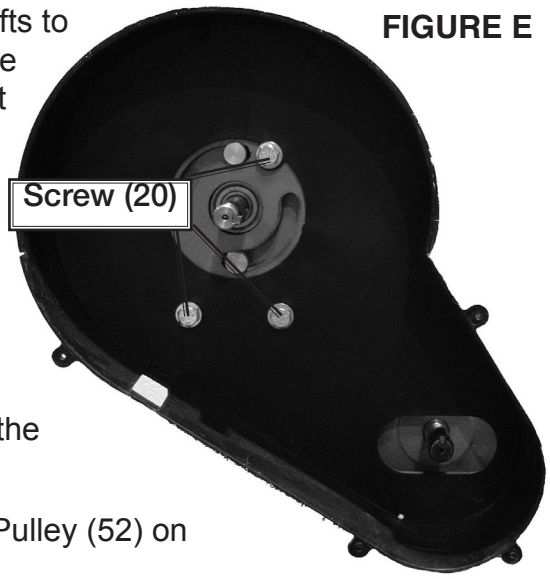
To Assemble the Pulleys, Sanding Disc Plate, and Table:

1. Remove the 4 screws from the cover on the Pulley Cover (22) and set aside.

2. Line up the three bolt holes on the Pulley Cover (22) with the threaded holes in the Bracket (26). Place a Washer (21) over each of 3 Screws (20). Insert a Screw (20) into each hole and tighten. **(See Figure E.)**

3. This item is packed with tape on the shafts to keep the keys in place. Remove the tape from the upper shaft, being careful to not lose the key.

FIGURE E



4. Loosen the Set Screw (14) on the Large Pulley (19). Put the Large Pulley on the upper shaft, with the smaller step on the pulley inside and with the key lined up with the slot on the Pulley. Be sure the key stays in the correct position, all the way through the pulley.

5. Repeat steps 3 and 4 putting the Small Pulley (52) on the lower shaft. **(See Figure F.)**

6. Carefully align both pulleys and tighten. Use a flat head screwdriver through the slot in the Pulley Cover (22) to tighten the Set Screw (14) on the Large Pulley (19). **(See Figure G.)** Use a hex key (not included) to tighten the Set Screw (14) on the Small Pulley (52).

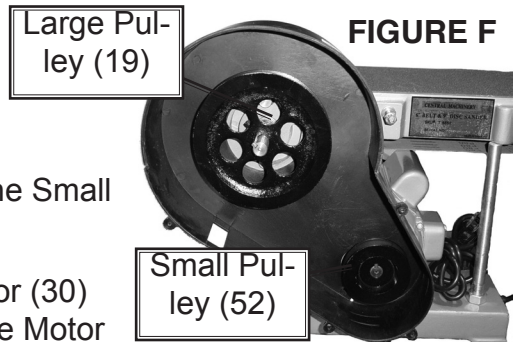


FIGURE F

7. Loosen the 4 Screws (48) that hold the Motor (30) just enough to let the Motor move. Move the Motor towards the Large Pulley enough to let the Belt (17) slip on over both Pulleys. Move the Motor away from the Large Pulley until the Belt is tight enough so that, if pushed, it doesn't move more than $^1/_2$". Hold the Motor in place while you retighten the 4 Screws (48).

8. Put the Sanding Disc Plate (16) on the end of the shaft so that it's flush with the end of the shaft. Tighten its set screw, once again using the slot in the Pulley Cover (22). **(See Figure G.)**

9. Check to make sure the Sanding Disc Plate (16) is free of dirt, oil, and other debris.

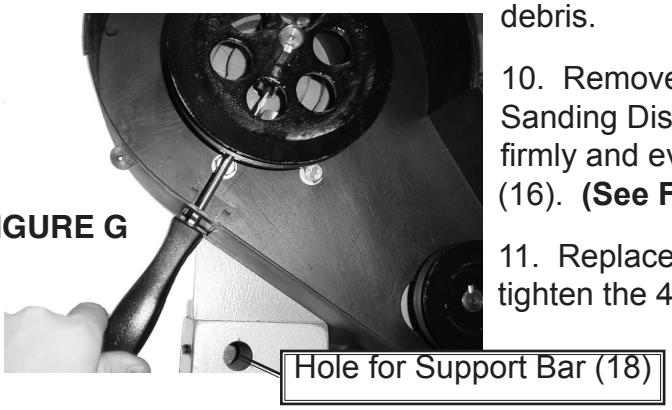


FIGURE G

10. Remove the paper backing on the adhesive Sanding Disc (15), and stick the Sanding Disc firmly and evenly onto the Sanding Disc Plate (16). **(See Figure I, page 11.)**

11. Replace cover of the Pulley Cover (22) and tighten the 4 screws. Verify that the pulley cover does not contact the Sanding Disc (15). If it does, you need to adjust the Sanding Disc Plate (16).

NOTE: When positioning the Table (1), make sure there is more than $^1/_{16}$" clearance but less than $^1/_8$" clearance between the Table and the Sanding Disc (15).

12. Insert the round end of the Support Bar (18) into the hole on the side of the Base (18). **(See Figure G.)** Put the Table Support Bracket (9) over the end of the Support Bar, with the tapered side of the Bracket facing the Sanding Disc (15) and also the flat side of the Bar lined up with the Set Screw. Tighten the Set Screw (14) on the Table Support Bracket. Set the Table Support Bracket as shown in **Figure J, page 12.** Tighten the two Set Screws (14) on the side of the Base to secure the bar.

OPERATING INSTRUCTIONS

To Install A Sanding Belt:

1. **CAUTION:** Always turn the Power Switch (53) to its "OFF" position and unplug the Power Cord (55) from its 110 volt electrical outlet before performing this procedure. **(See Figure B.)**
2. Loosen the two Lock Knobs (44) in order to unlock the two Adjust Nuts (44). **(See Figure H, next page.)**
3. Turn the two Adjust Nuts (44) *counterclockwise* to allow the Sanding Belt (2) to be inserted onto the Sand Belt Frame (40). **(See Figure H.)**
4. Slide the Sanding Belt (2) fully and evenly onto the Sanding Belt Frame (40). Then, turn the two Adjust Nuts *clockwise* to tighten the tension on the Sanding Belt. **(See Figure H.)**
5. Retighten the two Lock Knobs (44), and lock the two Adjust Nuts (44) in place. **(See Figure H.)**
6. Plug the Power Cord (55) into a 110 volt electrical outlet, and turn the Power Switch (53) to its "ON" position. **(See Figure B.)**
7. Allow sufficient time for the Sanding Belt (2) to turn at full speed. **(See Figure H.)**
8. **NOTE:** If the Sanding Belt (2) appears to be too *loose* on the Sand Belt Frame (40), turn off the machine and unplug it from its electrical outlet. Then repeat Steps #2 through #7 to further increase the tension on the Sanding Belt. **(See Figures B and H.)**
9. Attach the Back Stop (39) to the side of the Sanding Belt Frame (40), as shown in **Figure H.**

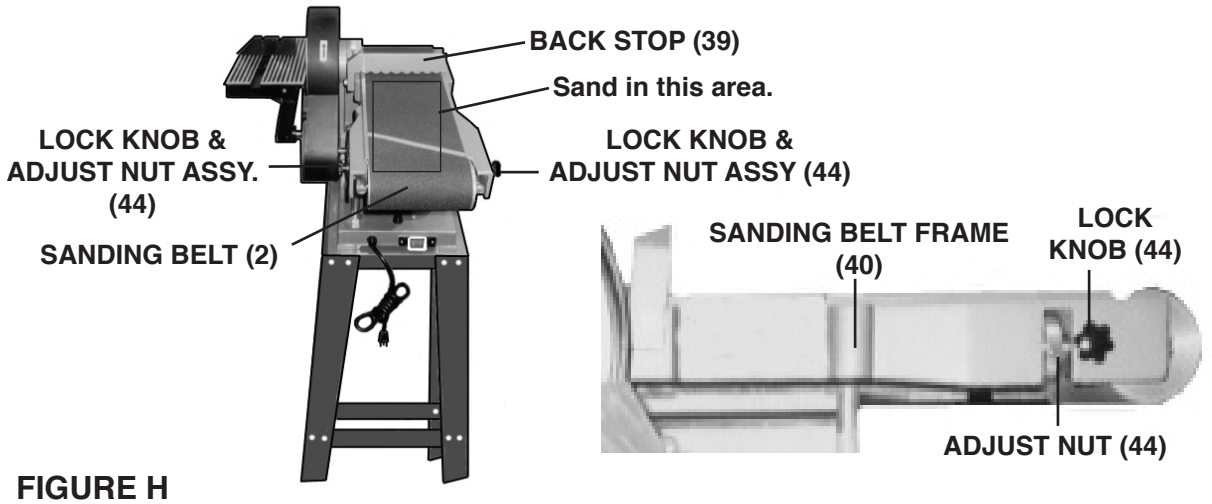

BACK STOP (39)
Sand in this area.
LOCK KNOB & ADJUST NUT ASSY. (44)
LOCK KNOB & ADJUST NUT ASSY (44)
SANDING BELT (2)
SANDING BELT FRAME (40)
LOCK KNOB (44)
ADJUST NUT (44)

FIGURE H

To Install A Sanding Disc:

1. **CAUTION:** Always turn the Power Switch (53) to its "OFF" position and unplug the Power Cord (55) from its 110 volt electrical outlet before performing this procedure. **(See Figure B.)**

2. Swing the Table Support Bracket (9) out of the way and remove the cover from the Pulley Cover (22) as explained on **page 9**. Check to make sure the Sanding Disc Plate (16) is free of dirt, oil, and other debris. **(See Figure I.)**

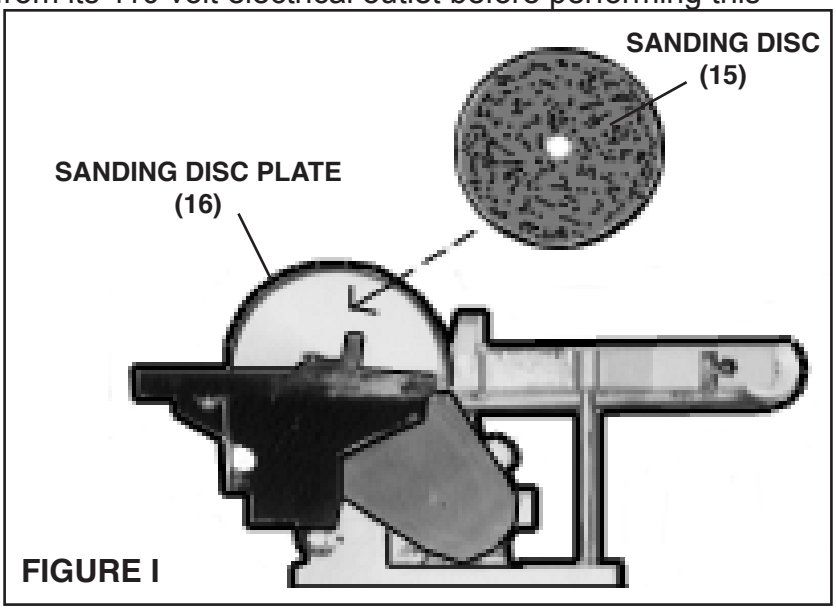


FIGURE I

3. Remove the paper backing on the adhesive Sanding Disc (15), and stick the Sanding Disc firmly and evenly onto the Sanding Disc Plate (16). Restore the Table Support Bracket and Pulley Cover to their original positions. **(See Figure I.)**

To Adjust The Angle Of The Table:

1. The angle of the Table (1) may be adjusted from **0 to 45** Degrees. **(See Figure J.)**

2. To adjust the angle of the Table (1), slightly loosen the Knob (10). **(See Figure J.)**

3. Observe the Angle Gauge (5). Then raise or lower the Table until the desired angle of the Table is shown on the Angle Gauge. **(See Figure J.)**

4. Once the desired angle of the Table (1) is obtained, retighten the Knob (10). **(See Figure J.)**

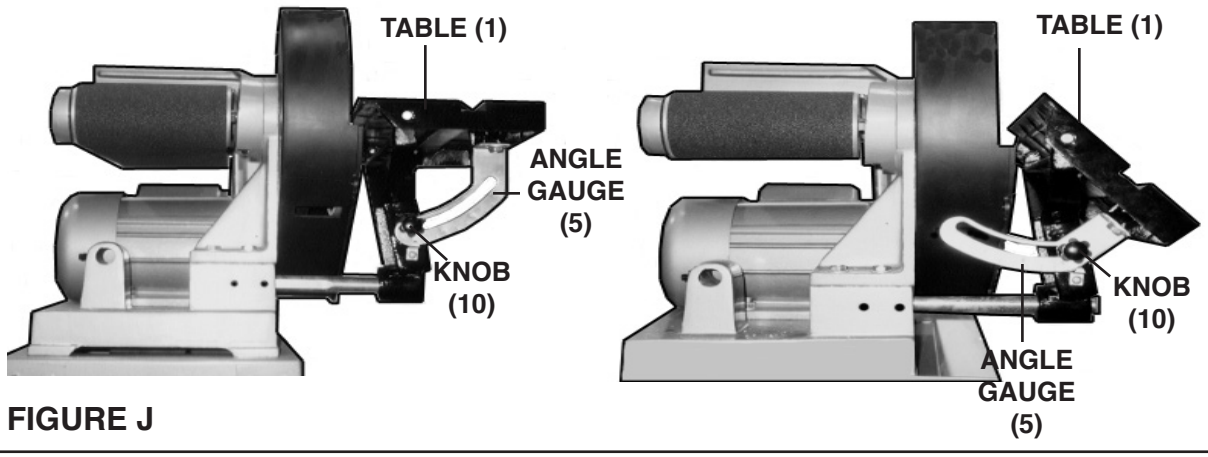


FIGURE J

To Adjust The Angle Of The Miter Gauge:

1. The angle of the Miter Gauge (3) may be adjusted to the right 0 to 45 Degrees and to the left 0 to 45 Degrees. **(See Figure K, next page.)**

2. To adjust the angle of the Miter Gauge (3), slightly loosen the Miter Gauge Knob. **(See Figure K.)**

3. Observe the Angle Scale on the Miter Gauge (3). Then move the Miter Gauge Body to the right or left until the desired angle of the Miter Gauge is shown on the Angle Scale. **(See Figure K.)**

4. Once the desired angle of the Miter Gauge (3) is obtained, retighten the Miter Gauge Knob. **(See Figure K.)**

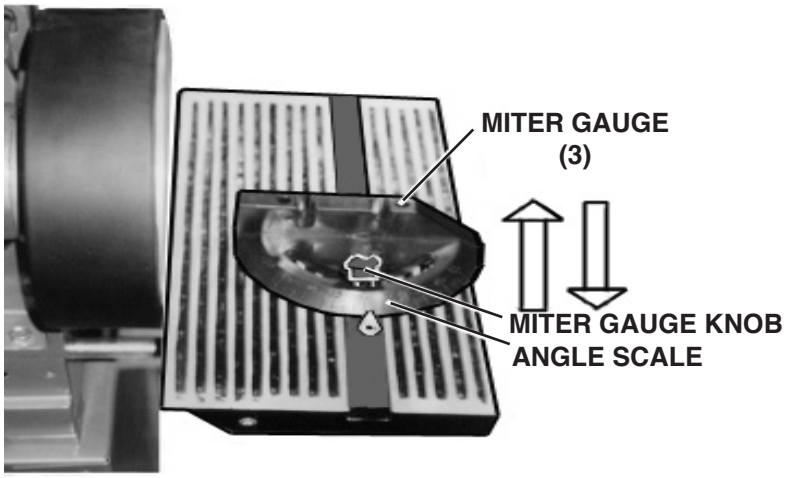


FIGURE K

To Adjust The Sand Belt Frame For Vertical Sanding:

Loosen the two Nuts (36) on the Sanding Belt Frame (40), and with assistance raise the Sanding Belt Frame to its full *vertical* position. Then, firmly retighten the two Nuts to lock the Sanding Belt Frame in place. **(See Figure L.)**

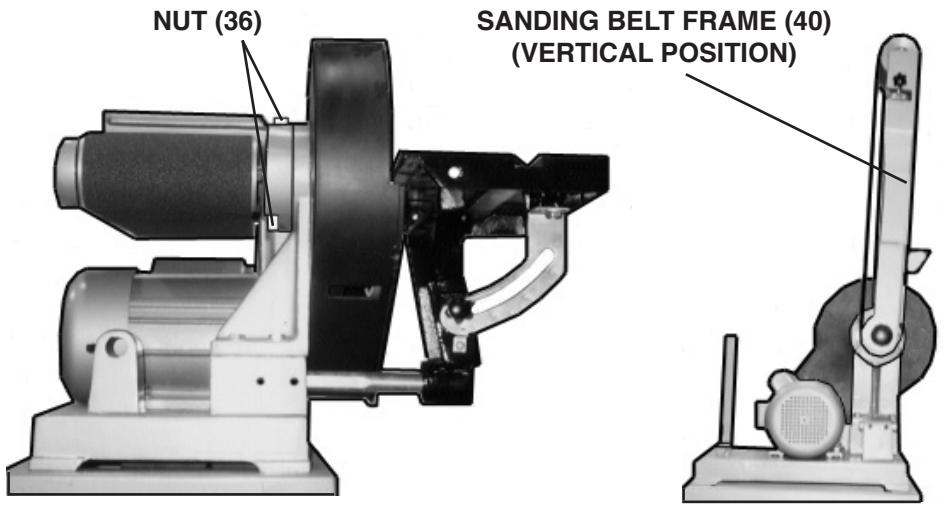


FIGURE L

To Adjust The Position Of The Table:

1. When the Sanding Belt Frame (40) is in its **vertical** position, the Table (1) should be repositioned to the *front* of the Sanding Belt Frame. **(See Figure M, next page.)**

2. To reposition the Table (1), loosen the two Set Screws (14) and remove the Table, including the Support Bar (18). **(See Figure M.)**

3. Insert the Support Bar into the Mounting Hole, and tighten the *other* two Set Screws (14). **(See Figure M.)**

4. **NOTE:** When repositioning the Table (1), make sure there is more than $^{1}/_{16}$" clearance but less than $^{1}/_{8}$" clearance between the Table and the Sanding Belt Frame (40). **(See Figure M.)**

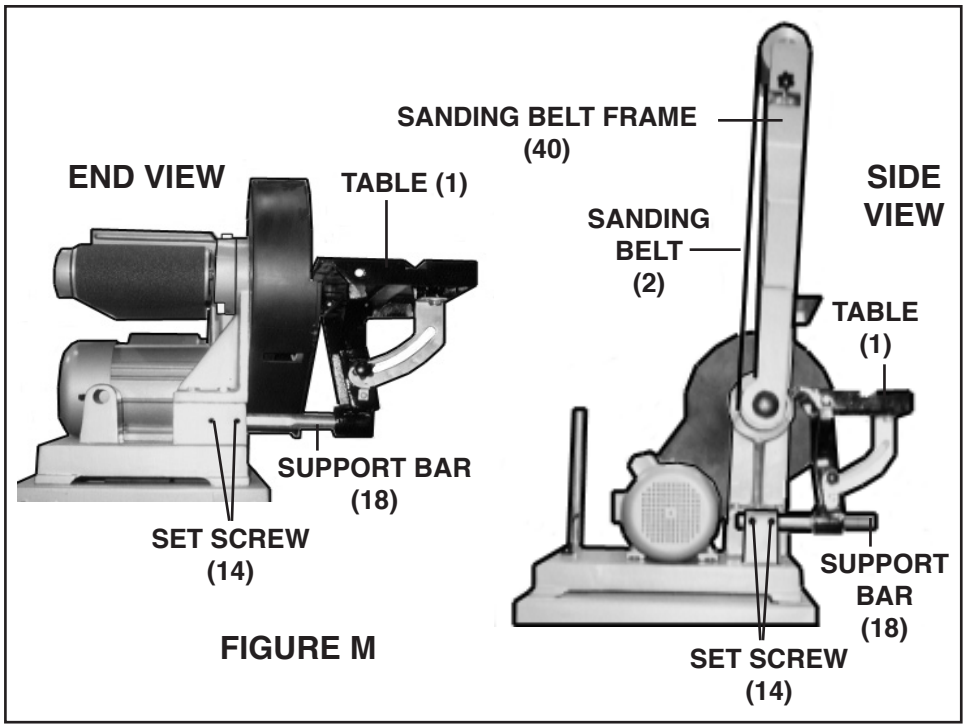


FIGURE M

To Perform Horizontal Sanding With The Sanding Belt:

1. **CAUTION:** Before each use, inspect the condition of the Sanding Belt (2). Look for tearing, excessive wear, or other damage to the Sanding Belt. Never use a Sanding Belt that is damaged. When replacing, never use an inexpensive, low quality Sanding Belt.

2. Plug the Power Cord (55) into a grounded, 110 Volt electrical outlet. **(See Figure B.)**

3. Turn the Power Switch (53) to its "ON" position, and allow the Sanding Belt (2) to come to **full speed** for approximately ten seconds before feeding the workpiece into the Sanding Belt. **(See Figure B.)**

4. Hold the workpiece **firmly** with both hands, and carefully set it flat and level upon the Sanding Belt (2) and against the Back Stop (39). **(See Figure B.)**

5. Apply **moderate** downward pressure on the workpiece, allowing the Sanding Belt (2) to cut without being forced.

6. Once the sanding procedure is completed, remove the workpiece from the Sanding Belt (2), turn the Power Switch (53) to its "OFF" position, and unplug the Power Cord (55) from its electrical outlet. **(See Figure B.)**

To Perform Horizontal Sanding With The Sanding Disc:

1. **CAUTION:** Before each use, inspect the condition of the Sanding Disc (15). Look for tearing, excessive wear, or other damage to the Sanding Disc. Never use a Sanding Disc that is damaged. When replacing, never use an inexpensive, low quality Sanding Disc.

2. **NOTE:** The Sanding Disc (15) is typically used for *smaller* workpieces.

3. Plug the Power Cord (55) into a grounded, 110 Volt electrical outlet. **(See Figure B.)**

4. Turn the Power Switch (53) to its "ON" position, and allow the Sanding Disc (15) to come to **full speed** for approximately ten seconds before feeding the workpiece into the Sanding Disc. **(See Figure B.)**

5. Hold the workpiece **firmly** with both hands, and carefully set it flat and level upon the Table (1). **(See Figure B.)**

6. Apply **moderate** inward pressure on the workpiece, allowing the Sanding Disc (15) to cut without being forced.

7. Once the sanding procedure is completed, remove the workpiece from the Sanding Disc (15), turn the Power Switch (53) to its "OFF" position, and unplug the Power Cord (55) from its electrical outlet. **(See Figure B.)**

To Perform Vertical Sanding With The Sanding Belt:

1. Adjust the Sand Belt Frame (40) and Table (1) for a *vertical* sanding procedure. **(See Figures L, and M.)**

2. Plug the Power Cord (55) into a grounded, 110 Volt electrical outlet. **(See Figure B.)**

3. Turn the Power Switch (53) to its "ON" position, and allow the Sanding Belt (2) to come to **full speed** for approximately ten seconds before feeding the workpiece into the Sanding Belt. **(See Figure M.)**

4. Hold the workpiece **firmly** with both hands, and carefully set it flat and level upon the Table (1). **(See Figure M.)**

5. Apply **moderate** inward pressure on the workpiece, allowing the Sanding Belt (2) to cut without being forced. **(See Figure M.)**

6. Once the sanding procedure is completed, remove the workpiece from the Sanding Belt (2), turn the Power Switch (53) to its "OFF" position, and unplug the Power Cord (55) from its electrical outlet. **(See Figure B.)**

INSPECTION, MAINTENANCE, AND CLEANING

1. **CAUTION: Always turn the Power Switch (53) to its "OFF" position and unplug the Power Cord (55) from its 110 volt electrical outlet before performing any inspection, adjustments, maintenance, or cleaning.**

2. **BEFORE EACH USE,** inspect the general condition of the Belt/Disc Sander. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, damaged electrical wiring, excessively loose Sanding Belt (2) and Sanding Disc (15), and any other condition that may affect its safe operation. If abnormal noise or vibration occurs, have the problem corrected before further use. **Do not use damaged equipment.**

3. **DAILY:** Sanding Belts (2) and Sanding Discs (15) must be sharp and clean to perform properly. Depending on materials sanded and frequency of tool use, Sanding Belts and Sanding Discs become clogged with wood particles and dull. Dull Sanding Belts and Sanding Discs rub the workpiece rather than cut, which results in increased friction, higher temperatures, and a burned workpiece. As often as possible, check the condition of the Sanding Belt and Sanding Disc and, if necessary, replace a worn Sanding Belt and Sanding Disc with a new, 6" wide by 48" Sanding Belt and 9" diameter Sanding Disc.

4. **DAILY:** With a soft brush, cloth, or vacuum, remove all sawdust and debris from the Belt/Disc Sander. Then, use a premium quality, lightweight machine oil to lubricate all moving parts.

PLEASE READ THE FOLLOWING CAREFULLY

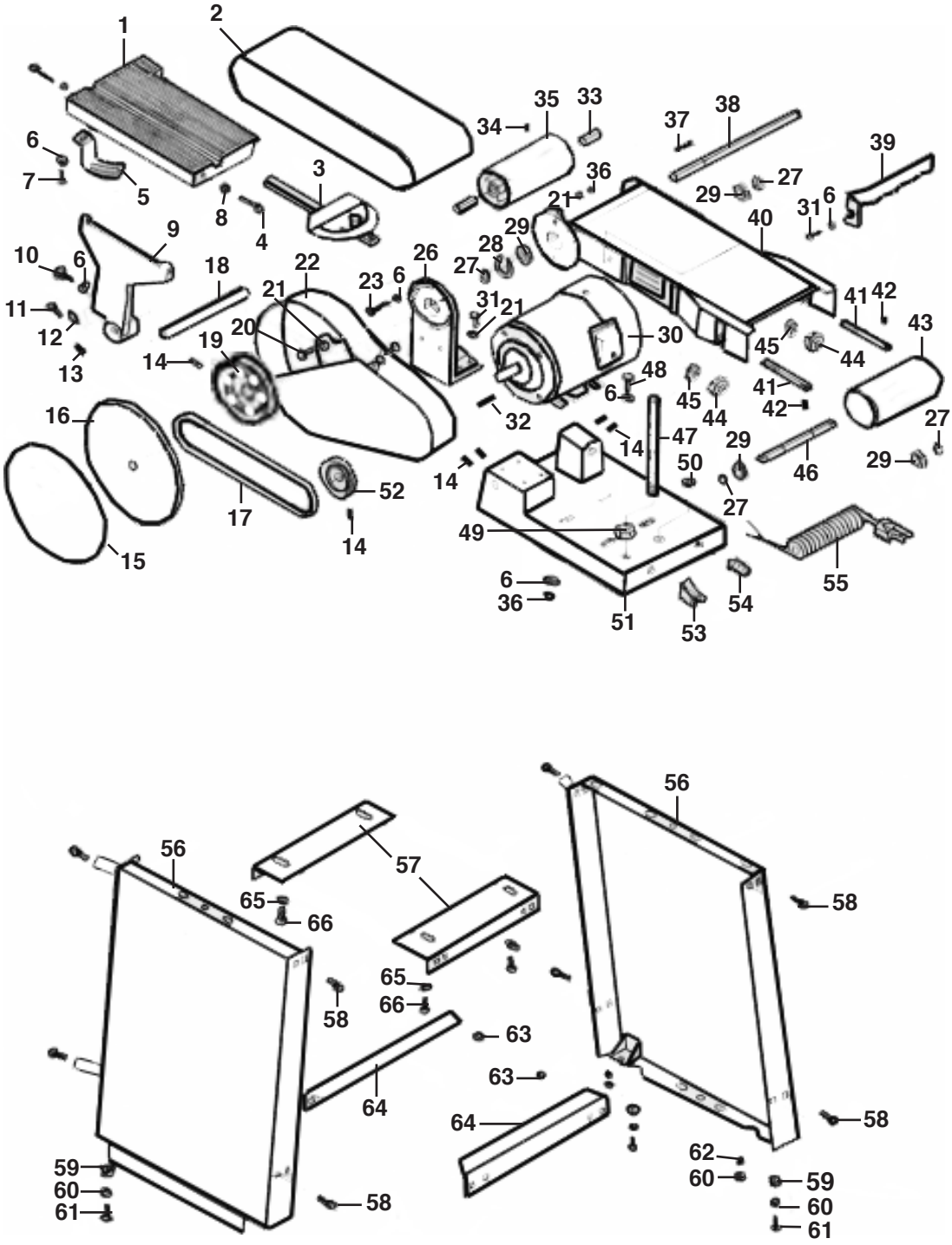
THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

PARTS LIST

PART #	DESCRIPTION	QTY	PART #	DESCRIPTION	QTY
1	Table	1	34	Set Screw	2
2	Sanding Belt	1	35	Driving Roller	1
3	Miter Gauge	1	36	Nut (M8)	6
4	Screw (M5x30)	2	37	Key (B5x50)	1
5	Angle Gauge	1	38	Driving Roller Shaft	1
6	Washer (8)	6	39	Back Stop	1
7	Screw (M8x12)	1	40	Sanding Belt Frame	1
8	Nut (M5)	2	41	Roller Adjust Bar	2
9	Table Support Bracket	1	42	Spring Pin (5)	2
10	Knob	1	43	Leader Roller	1
11	Screw (M5x10)	1	44	Lock Knob/Adjust Nut Assy	2
12	Pointer	1	45	Spring	2
13	Set Screw	1	46	Leader Roller Shaft	1
14	Set Screw	7	47	Support Bolt (M16x240)	1
15	Sanding Disc	1	48	Screw (M8x30)	4
16	Sanding Disc Plate	1	49	Nut (M8x30)	1
17	V-Belt (A-710)	1	50	Cord Clamp	1
18	Support Bar	1	51	Base	1
19	Large Pulley	1	52	Small Pulley	1
20	Screw (M8x10)	3	53	Switch	1
21	Washer (8)	6	54	Cord Clamp	1
22	Pulley Cover	1	55	Power Cord	1
23	Screw (M8x35)	2	56	Stand	2
24	Washer (4)	1	57	Upper Bracket	2
25	Knob	1	58	Bolt (M8x10)	16
26	Bracket	1	59	Rubber Foot	4
27	Retaining Ring	4	60	Washer (8)	8
28	C-Snap Ring	1	61	Screw (M5x12)	8
29	Ball Bearing	4	62	Nut (M5)	4
30	Motor	1	63	Nut (M8)	4
31	Screw (M8x25)	5	64	Frame	2
32	Key (B5x20)	1	65	Washer (8)	4
33	Tube	2	66	Screw (M8x10)	4

NOTE: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

ASSEMBLY DIAGRAM



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REV 05b

Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

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